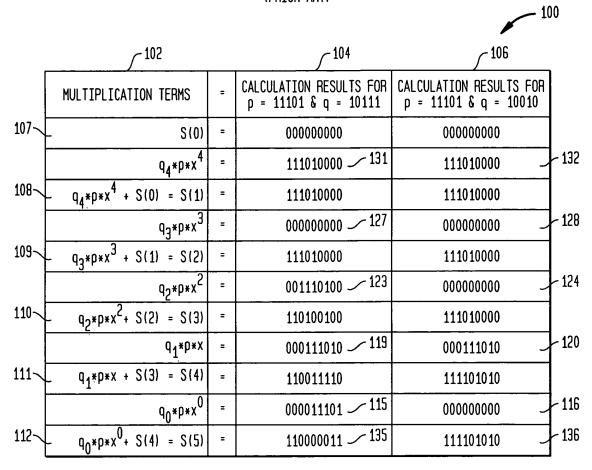
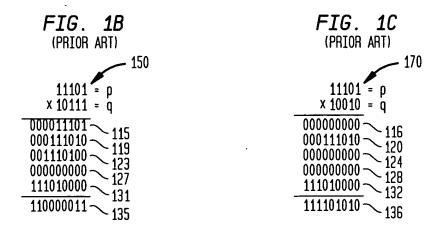


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FIG. 1A (PRIOR ART)



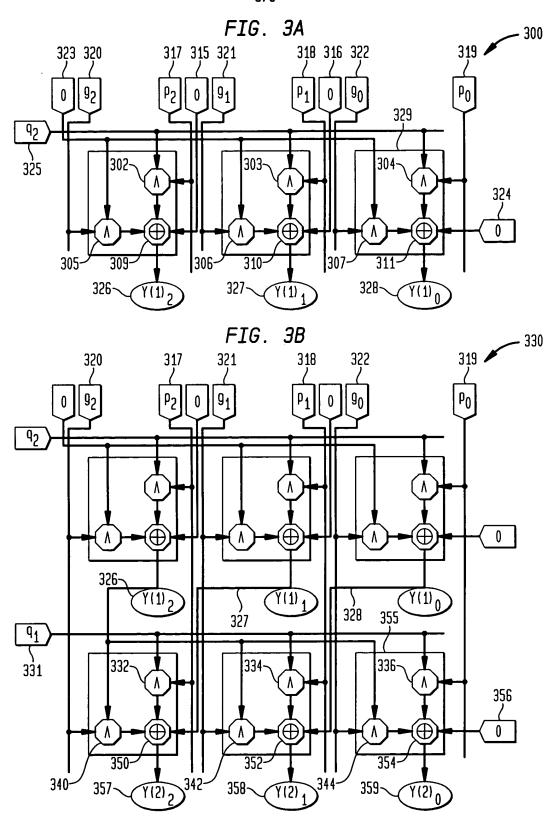


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FIG. 2 (PRIOR ART)

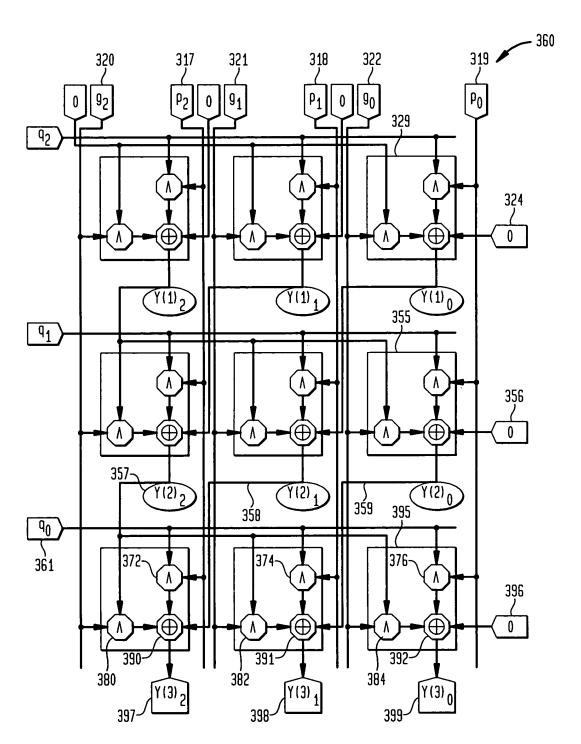
			(1112011 74111)	20	ın
	~202	•	~204	~206	V
	REMAINDER TERMS	=	CALCULATION RESULTS FOR p = 11101, q = 10111 AND g = 10010	CALCULATION RESULTS FOR p = 11101, q = 10010 AND g = 10010	
208~	- S(5) = S(M) = Z(1)	=	110000011 - 210	111101010 -	-212
	Z(1) ₈ *g*x ³	=	100101000	100101000	
214~	$-Z(1)_{8}*g*x^{3}+Z(1)=Z(2)$	=	010101011	011000010	
	Z(2) ₇ *g*x ²	=	010010100	010010100	
220~	- Z(2) ₇ *g*x ² +Z(2)=Z(3)	. =	000111111	001010110	
	Z(3) ₆ *g*x	=	00000000	001001010	
226~	Z(3) ₆ *g*x+Z(3) =Z(4)	=	000111111	000011100	
	Z(4) ₅ *g*x ⁰	=	000100101	000000000	
232~	$-Z(4)_{5}*g*x^{0}+Z(4)=Z(5)$	=	000011010	000011100	
	THE GF PRODUCT	=	$11010 - x^4 + x^3 + x$	$11100 \rightarrow x^4 + x^3 + x^2$	-242
			240		

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SERIAL NO.: 10/799,316 PETER H. PRIEST (919-806-1600)

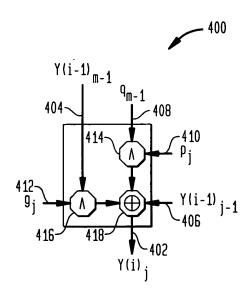
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SERIAL NO.: 10/799,316 PETER H. PRIEST (919-806-1600)

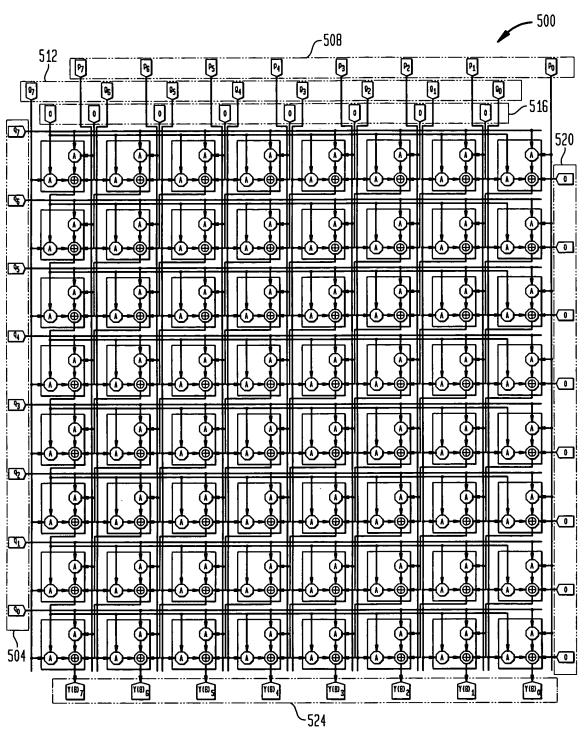
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FIG. 4

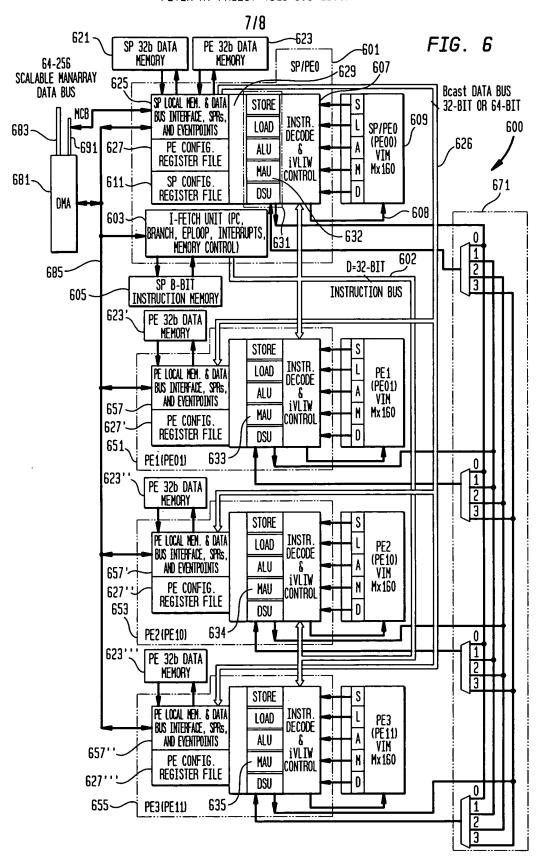


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FIG. 5



SERIAL NO.: 10/799,316 PETER H. PRIEST (919-806-1600)



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FIG. 7A

				700
31 30 29 28 27 26 25 24 23 22 21	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6 5 4	13210
Group S/P Unit MPYGF opcode	Rt	Rx	Ry of	E2 MPack
Group(3/F) OILL HETOF OPCODE	Rte 0	Rxe 0	Rye 0	LE ITI OCK

FIG. 7B

				— 750					
	Syntax/Operation								
	Instruction	Operands	Operation	ACF					
	Quad								
752 {	MPYGF.[SP]M.4UB	Rt,Rx,Ry	Rt.B3 — rem(Rx.B3*Ry.B3/PSR.B0 Rt.B2 — rem(Rx.B2*Ry.B2/PSR.B0 Rt.B1 — rem(Rx.B1*Ry.B1/PSR.B0 Rt.B0 — rem(Rx.B0*Ry.B0/PSR.B0 — 755	NONE					
	[TF].MPYGF.[SP]M.4UB	Rt,Rx,Ry	Do operation only if T/F condition is satisfied in FO						
			Octal	Bytes					
754	MPYGF.[SP]M.8UB	ŕ	Rte.B3 — rem(Rxe.B3*Rye.B3/PSR.B0 Rte.B2 — rem(Rxe.B2*Rye.B2/PSR.B0 Rte.B1 — rem(Rxe.B1*Rye.B1/PSR.B0 Rte.B0 — rem(Rxe.B0*Rye.B0/PSR.B0 Rto.B3 — rem(Rxo.B3*Ryo.B3/PSR.B0 Rto.B2 — rem(Rxo.B2*Ryo.B2/PSR.B0 Rto.B1 — rem(Rxo.B1*Ryo.B1/PSR.B0 Rto.B0 — rem(Rxo.B0*Ryo.B0/PSR.B0	NONE					
	[TF].MPYGF.[SP]M.8UB	Rte,Rxe,Rye	Do operation only if T/F condition is satisfied in FO	NONE					